

Amendments to the Specification

Please replace page 5, line 4 with the following:

$$R_{xy}(0) = x^T y^T = \sum_{i=1}^I x_i y_i \quad (\text{Eq. 2})$$

Please replace page 5, line 15 with the following:

$$R_{xy}(0) = x^T y^T = (-1)(-1) + (-1)(1) + (1)(1) + (1)(-1) \quad (\text{Eq. 3})$$

Please replace the paragraph at page 9, lines 18 through 19 with the following amended paragraph:

Figures ~~8(a) and 8(b)~~ 8A and 8B are flow charts illustrating the steps of the method according to the invention.

Please replace the paragraph at page 19, lines 8 through 12 with the following amended paragraph:

Figures ~~8(a) and 8(b)~~ 8A and 8B are flow charts of the method for using a non-orthogonal pilot signal according to the invention. In step 10, a non-orthogonal pilot signal P is modulated by a channel code p_c . Simultaneously, a data signal which is split into sub-band data I and Q is mixed with a specific channel code of a user g_i . In step 20, the non-orthogonal pilot signal is then summer with the I and Q sub-band data signals to produce resultant signals.